# AMENDMENTS TO THE CLAIMS

Please replace all prior versions, and listings, of claims in the application with the following list of claims:

#### 1.-14. (Cancelled)

15. (Currently Amended) A magnetic cell comprising:

a cell;

a magnetic particle comprising a magnetic material; and

a peptide which has an amino acid sequence comprising RGDS or GRGDS, and which has an adhesive activity for a cell surface molecule of the cell,

wherein the magnetic particle is coated with the peptide at a ratio of from 3 ng to 6.6 μg of the peptide to 1 mg of the magnetic particle.

16. (Previously Presented) The magnetic cell according to claim 15, wherein the cell is selected from the group consisting of:

a cultured chondrocyte, a mesenchymal cell, a lymphocyte, a neural stem cell and a cell which expresses integrin.

- (Previously Presented) The magnetic cell according to claim 15 or 16, wherein the magnetic particle further comprises a drug.
- (Cancelled)
- (Currently Amended) The magnetic cell according to claim [[18]]15, wherein the magnetic
  particle further comprises a drug.
- 20. (Currently Amended) A culture of magnetic cells, wherein the magnetic cell comprises:

a cell:

a magnetic particle comprising a magnetic material; and

a peptide which has an amino acid sequence comprising RGDS or GRGDS, and which has an adhesive activity for a cell surface molecule of the cell,

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wherein the magnetic particle is coated with the peptide at a ratio of from 3 ng to 6.6 µg of the peptide to 1 mg of the magnetic particle.

(Previously Presented) The culture of magnetic cells according to claim 20, wherein the cell
is selected from the group consisting of:
 a cultured chondrocyte, a mesenchymal cell, a lymphocyte, a neural stem cell and a cell which

expresses integrin.

## 22. (Cancelled)

- (Currently Amended) The culture of magnetic cells according to claim [[22]]20 or 21, wherein the magnetic cell is grown in vitro for up to 21 days.
- 24. (Currently Amended) A method for localizing a magnetic cell to a site in a subject, the method comprising:

administering a magnetic cell into a subject having a disease or a lesion, wherein the magnetic cell comprises a cell, a magnetic particle comprising a magnetic material, and a peptide which has an amino acid sequence comprising RGDS or GRGDS, and which has an adhesive activity for a cell surface molecule of the cell, wherein the magnetic particle is coated with the peptide at a ratio of from 3 ng to 6.6 µg of the peptide to 1 mg of the magnetic particle; and

applying a magnetic field at or near a site of the disease or the lesion so as to localize the magnetic cell at or near the site in the subject, wherein the magnetic field is applied outside the body of the subject, or by embedding a magnet inside the body of the subject.

- 25. (Previously Presented) The method according to claim 24, wherein the cell is selected from the group consisting of a cultured chondrocyte, a mesenchymal cell, a lymphocyte, a neural stem cell and a cell which expresses integrin.
- (Previously Presented) The method according to claim 24 or 25, wherein the magnetic particle further comprises a drug.
- 27. (Cancelled)
- 28. (Currently Amended) The method according to claim [[27]]24, wherein the magnetic particle further comprises a drug.
- (Previously Presented) The method according to claim 24, further comprising retaining the magnetic cell at or near the site of the disease or the lesion for a period of 1-90 days.
- 30. (Previously Presented) The method according to claim 29, wherein the cell is selected from the group consisting of a cultured chondrocyte, a mesenchymal cell, a lymphocyte, a neural stem cell and a cell which expresses integrin.
- 31. (Previously Presented) The method according to claim 29 or 30, wherein the magnetic particle further comprises a drug.
- 32-33. (Cancelled)
- 34. (Currently Amended) A method for controlling the activity of a magnetic cell, the method comprising:

administering a magnetic cell into a subject having an injury or lesion, wherein the magnetic cell comprises a cell, a magnetic particle comprising a magnetic material, a-linker, and a drug for

controlling the activity of the magnetic cell, wherein the magnetic particle is coated with a peptide at a ratio of from 3 ng to 6.6 µg of the peptide to 1 mg of the magnetic particle;

applying a magnetic field at or near a site of the injury or lesion in the subject, and releasing the drug at or near the site so as to control the activity of the magnetic cell in the subject.

## (Cancelled)

- (Currently Amended) The method of claim [[35]]34, wherein the peptide has an amino acid sequence comprising RGDS or GRGDS.
- 37. (Previously Presented) The method of claim 34, wherein the drug is contained in the magnetic particle of the magnetic cell.
- (Currently Amended) The method of claim 34, wherein the drug is contained in a second magnetic particle.
- (Currently Amended) The method of claim 38, wherein the magnetic cell and the second
  magnetic particle containing the drug are administered to the subject simultaneously.
- 40. (Currently Amended) The method of claim 38, wherein the magnetic cell and the <u>second</u> magnetic particle containing the drug are administered to the subject separately.
- (Currently Amended) The method according to any one of claims [[34-40]]34 and 36-40,
   wherein the activity of the magnetic cells is differentiation of the magnetic cell.
- 42. (Currently Amended) The method according to any one of claims [[34-40]] 34 and 36-40, wherein the activity of the magnetic cells is proliferation of the magnetic cell.

43. (Currently Amended) A method for inducing tissue repair in a subject, the method comprising:

administering a magnetic cell into a subject in need of a tissue repair, wherein the magnetic cell comprises a cell[[,]] and a magnetic particle comprising a magnetic material, and a linker wherein the magnetic particle is coated with a peptide at a ratio of from 3 ng to 6.6 µg of the peptide to 1 mg of the magnetic particle;

applying a magnetic field at or near a site of the tissue repair in the subject so as to retain the magnetic cell at or near the site of the tissue to be repaired, in an amount or duration sufficient to induce tissue repair.

### 44. (Cancelled)

- 45. (Currently Amended) The method of claim [[44]]43 wherein the peptide has an amino acid sequence comprising RGDS or GRGDS.
- 46. (Previously Presented) The method of claim 43 wherein the magnetic cells is selected from the group consisting of:

a cultured chondrocyte, a mesenchymal cell, a lymphocyte, a neural stem cell and a cell which expresses integrin.

- 47. (Currently Amended) The method according to elaim 43-46any one of claims 43, 45 and 46, further comprising administering a drug.
- 48. (Cancelled)
- (Currently Amended) The method of claim [[48]]
   further-comprising administering a drugwherein the magnetic particle further comprises a drug.

- 50. (Previously Presented) The method according to claim 47, wherein the drug is contained in the magnetic particle of the magnetic cell.
- (Previously Presented) The method according to claim 47, wherein the drug is contained in a second magnetic particle.
- 52. (Previously Presented) The method according to claim 51, wherein the magnetic cell and the second magnetic particle containing the drug are administered to the subject simultaneously.
- 53. (Previously Presented) The method according to claim 51, wherein the magnetic cell and the second magnetic particle containing the drug are administered to the subject separately.

## 54-57. (Cancelled)

- 58. (Currently Amended) A method for treating a tumor in a subject, the method comprising:
  administering a magnetic cell to a subject having a tumor, wherein the magnetic cell
  comprises a cell; a magnetic particle comprising a magnetic material; a peptide which has an amino
  acid sequence comprising RGDS or GRGDS, and which has an adhesive activity for a cell surface
  molecule of the cell, wherein the magnetic particle is coated with the peptide at a ratio of from 3 ng
  to 6.6 µg of the peptide to 1 mg of the magnetic particle; and an anti-cancer drug; and
- applying a magnetic field to the subject so as to localize the magnetic cell at or near the site of the tumor in the subject, in an amount and duration effective to treat the tumor.
- 59. (Previously Presented) The method according to claim 58, wherein the magnetic field is applied outside the body of the subject.
- 60. (Previously Presented) The method according to claim 58, wherein the magnetic field is applied by embedding a magnet inside the body of the subject.

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(Previously Presented) The method according to any one of claims 58-60, wherein the anti-61. cancer drug is selected from the group consisting of:

irinotecan hydrochloride trihydrate, mitomycin C, 5-fluorouracyl, cisplatin, gemcitabine hydrochloride, doxorubicin and taxol.

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(Currently Amended) A method for treating dementia in a subject, the method comprising: 62. administering a magnetic cell to a subject having dementia, wherein the magnetic cell comprises a cell[[,]] and a magnetic particle comprising a magnetic material and a linker, wherein the magnetic particle is coated with a peptide at a ratio of from 3 ng to 6.6 µg of the peptide to 1 mg of the magnetic particle; and

applying a magnetic field to a region of the brain of the subject, in an amount and duration effective to treat the dementia.

- (Previously Presented) The method according to claim 62, wherein the cell is a neural stem 63. cell or a cell which expresses integrin.
- (Currently Amended) The method according to claim 62, wherein the linker comprises a 64. peptide has an amino acid sequence comprising RGDS or GRGDS.
- (Previously Presented) The method according to any one of claims 62-64, wherein the 65. magnetic cell further comprises a dementia therapeutic agent.

66.-117. (Cancelled)